

Hunters Hill. Collection no. 6007 was made from a colony growing in wet moss in deep shade under willows, not far from a colony of *Listera auriculata* Wieg., a rare orchid in Minnesota. *P. trivialis* is an interesting addition to the adventive flora established on the higher slopes of Hunters Hill, e. g. *P. Chaixii*, *P. nemoralis*, *Milium effusum* and *Luzula nemorosa*.

HELENIUM NUDIFLORUM Nutt. is extending its range farther into the interior west from Michigan and north from Missouri. In Minnesota the writer discovered a colony of the species on Highway 23, about two miles south of the Holyoke Junction, in Carlton Co. Collection Lakela no. 5860 was made on Sept. 4, 1944, from a colony of scattered individual plants growing in shallow moss-mats with species of *Juncus* and *Carex*, along a partly cleared border of the roadside thicket.

EQUISETUM ARVENSE L., f. CAMPESTRE (C. F. Schultz) Klinge was discovered in water-filled depressions made by removal of sod, in a brookside-meadow northwest of Woodland Ave. in Duluth. Specimens no. 5985 collected June 23, 1945, have more chlorophyll-containing tissue in fertile stems than later formed plants. Strobili continued to develop through August. The writer is obliged to Dr. R. M. Tryon, Jr., University of Minnesota, for determination of the form.—OLGA LAKELA, Duluth State Teachers College.

BIDENS HYPERBOREA VAR. TYPICA

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Bidens hyperborea was described in 1901¹ from material collected at Rupert House, James Bay, by J. M. Macoun in 1885, and its specific identity with plants on estuaries from the St. Lawrence to New England was later demonstrated.²

“The treatment of this variable species by the present writer (1925c)³ can be regarded only as tentative. Var. *typica* Fassett came from Rupert House, James Bay, Canada, and is described as being simple and monocephalous, with entire or few-toothed leaves. Plants matching this description were collected by Svenson and Fassett on the estuary of the Restigouche River,

¹ Greene, *Pittonia* iv. 257 (1901).

² Fernald, *RHODORA* xx. 146-150 (1918).

³ Fassett, *RHODORA* xxvii. 166-171 (1925).

New Brunswick; this collection is cited (Fassett, 1925c) as No. 889 under var. *laurentiana*. The unbranched plants with small achenes formed colonies distinct from those of the larger variety also present on this estuary, and were considered in 1925 to be mere dwarfed forms of it. This is probably the case, but it is possible that the type collection from James Bay, the only collection known, may represent small forms of a larger plant present on the estuaries of rivers entering Hudson Bay. The final word may not be spoken until complete collections have been made in that region."⁴

Copious collections of *Bidens hyperborea* have recently been made by Rev. Arthème Dutilly, O.M.I. and Rev. Ernest Lepage, at Rupert House and East Main River; while it would be over-optimistic to try to speak "a final word", these collections show conclusively that the type material *does* represent only dwarfed forms such as may be found in almost any colony of any species of *Bidens*. These new collections total 46 individuals, of which 16 are simple and monocephalous like the type, 17 are slightly branched above, and 13 are copiously branched. The leaves, except on the smallest individuals, are conspicuously toothed, and the achenes are for the most part definitely larger than those of the type specimens, the outer being 4.5–7.5 mm. long, the inner 6.0–9.0 mm. long, and the awns 3.0–4.5 mm. long. In short, just as small individuals of var. *laurentiana* are inseparable from the type material of *B. hyperborea*, so well-developed plants from the type locality are inseparable from similar individuals of var. *laurentiana*. *B. hyperborea* var. *laurentiana* Fassett, RHODORA xxvii. 169 (1925), therefore becomes a synonym of *B. hyperborea* var. *typica* Fassett, l. c., p. 167.

The Dutilly & Lepage collections, all of which have been loaned to me by Father Lepage, are as follows: Rupert House, 51° 30' N., August 31–September 2, 1944, nos. 13576, 13633 & 13660; East Main River, 52° 15' N., August 28–29, 1944, nos. 13485 and 13522. For the loan of the type of *Bidens hyperborea* from the National Herbarium of Canada I am indebted to Dr. A. E. Porsild.

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⁴ Fassett, Proc. Boston Soc. Nat. Hist. xxxix. 103 (1928).